Auxo

# A CPP Bronco garden with Auxo

FallFastPitch2026@cpp.edu

100 ft wide
California natives in full sun

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# The official CPP Bronco




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Let’s have fun and plant the CPP logo somewhere on campus with CA native plants.

Garden footprint: 100 ft wide and about 57.2 ft high, with original proportions.



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# The garden brief

ACTIVE PROJECT

## CPP Bronco Garden Demo

Create a 100 ft wide California native garden shaped like the Cal Poly Pomona green-and-gold Bronco horse logo, with full sun and no ongoing irrigation.

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A 100 ft wide CPP Bronco garden, using California natives in full sun.



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# California native plants

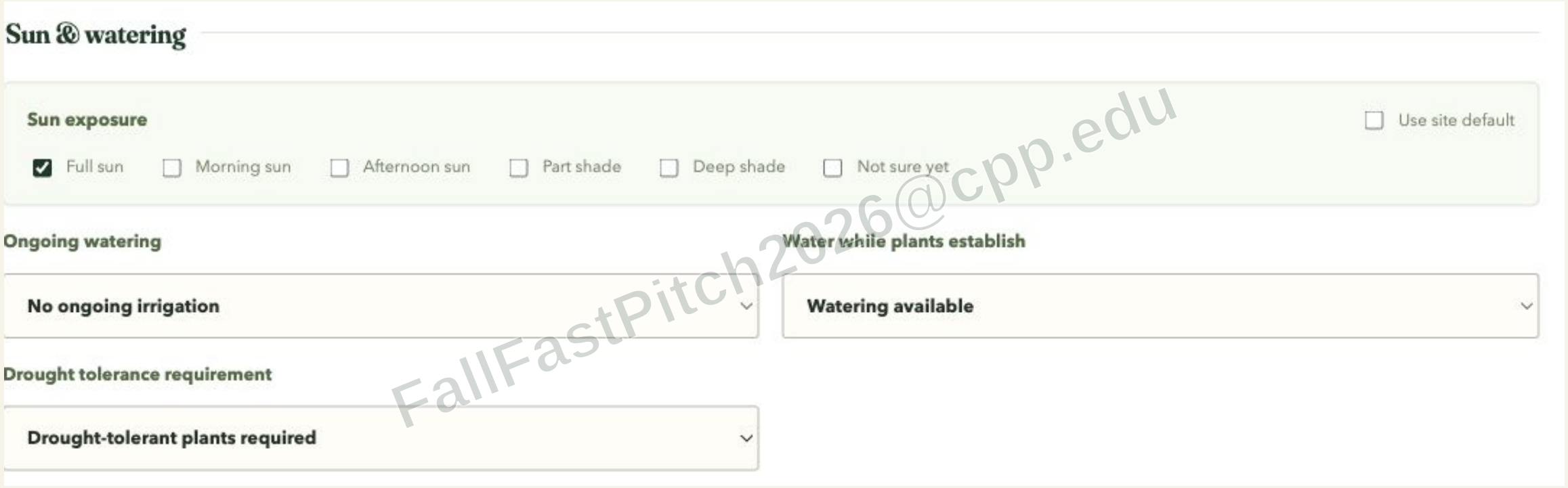



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California native plants only, using the enabled plant collections. The CLCA landscape plants are ~150 common landscape/gardening plants. The Calscape dataset is ~8000 CA natives


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# Full sun without ongoing irrigation




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Full sun, no ongoing irrigation, and watering available while plants establish.


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# Developer-assisted boundary import




Logo boundary imported with developer assistance. I didn’t show this step.

Auxo currently has no image-upload capability.


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# Campus context



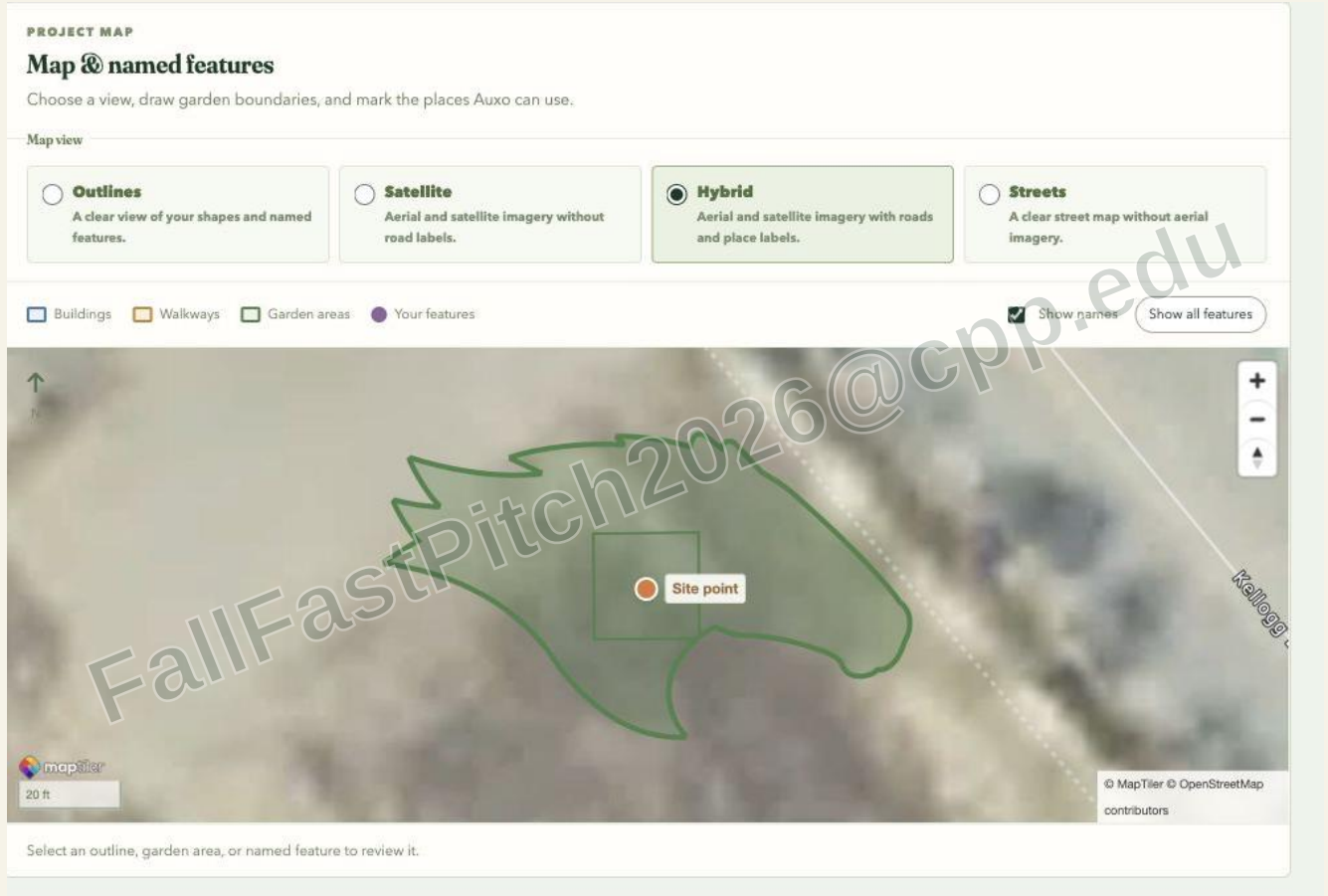

Orange marker: proposed garden location at Cal Poly Pomona.

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# The Bronco boundary on the map




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Garden center: 34.05750802207627, -117.81715511203696. Bare land next to Kellogg Dr


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# Saved boundary measurements

## 3,089 sq ft




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100 ft east–west × 57.2 ft north–south are the horse outline's boundaries.


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# Ready for plant evaluation




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All 8 required abiotic inputs are complete. On-site soil and drainage observations remain open. With this step complete, we've established the abiotic factors on-site and are ready to evaluate plants


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# The evaluated plant list

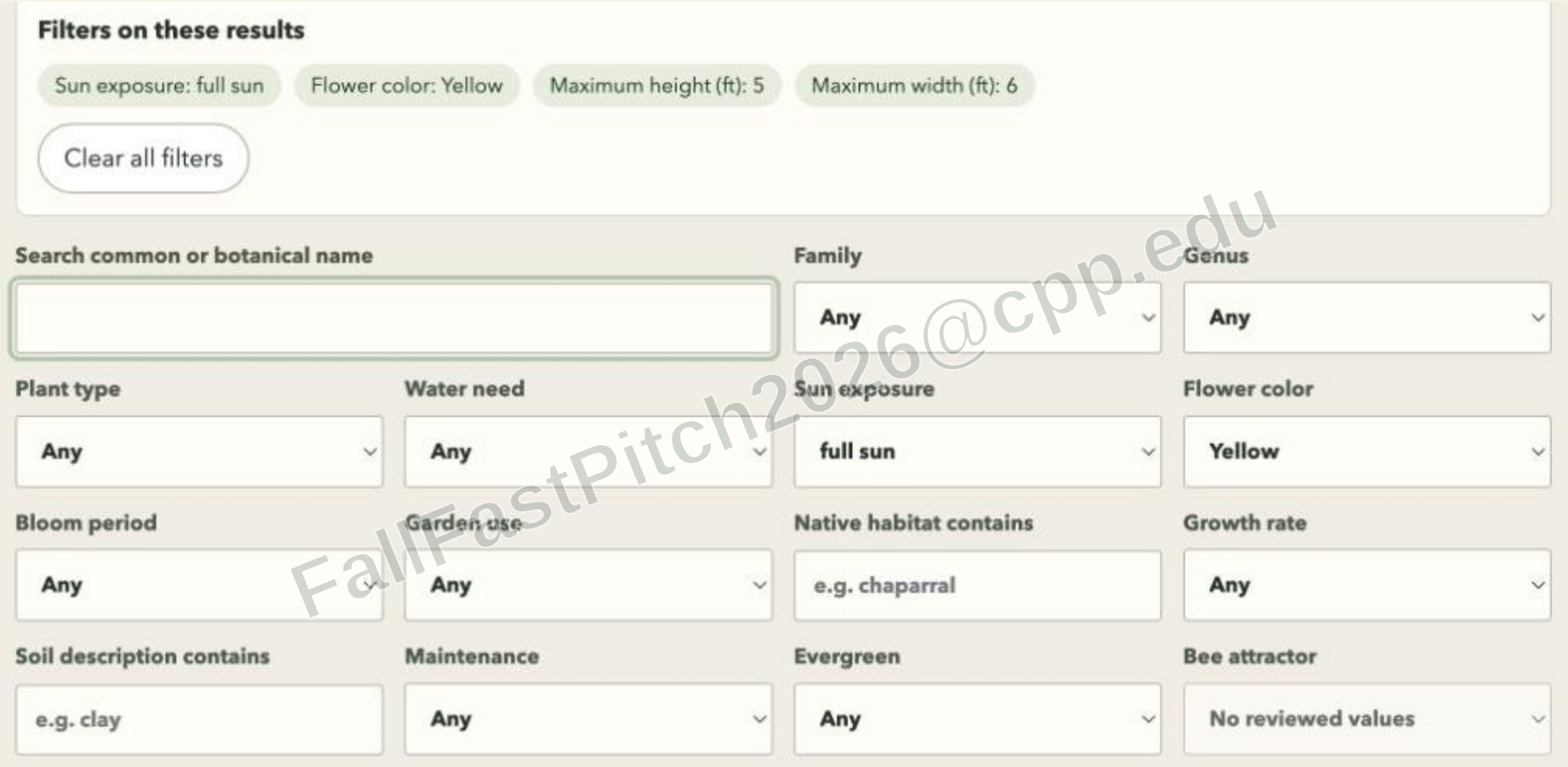



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Auxo runs a traditional ML system to rank the plants in the dataset via their attributes. Auxo reports 1,323 eligible plants. The applied filters leave 181 matches.


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# Plant filters




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Gardeners are picky. So let's give them the ability to filter viable plants via various attributes. We select yellow flowers and full sun, followed by a photo check on each plant card.


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# Deerweed




Green foliage for the logo, with yellow flowers and a catalog photo. Attributes and source records look populated.

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# Yellow yarrow

CONDITIONAL

Select

## Eriophyllum confertiflorum var. confertiflorum

SOURCE NAME Eriophyllum confertiflorum var. confertiflorum

Yellow Yarrow




Downloaded catalog reference image.

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Annual Herb | Perennial Herb | Low Water | Full Sun | Part Shade | Up To 2.0 Ft Tall | Yellow Flowers | Gold Flowers | Spring Bloom | Summer Bloom

2 reviewed cultivation source record(s); normalized water need is low. 1 suitability warning is shown.

Yellow flowers carry the gold portions of the planting concept.



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# Naturalistic drifts




I have an extremely basic layout generator. We select for Naturalistic drifts, a south viewing edge, and the current 65% density setting.

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# Exact plant quantities




**30 deerweed**
**120 yellow yarrow**

4 ft deerweed canopies
2 ft yarrow canopies

(I had to work backwards on this, but I knew this # of plants would work) Request 30 deerweed and 120 yellow yarrow, using their adult canopy widths.

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# Saved green-and-gold planting

| Planting role | Plant | Count |
| --- | --- | --- |
| Green foliage | Deerweed | 30 |
| Gold flowers | Yellow yarrow | 120 |

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Saved plant positions follow the logo’s green-and-gold regions.


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# The saved Bronco layout

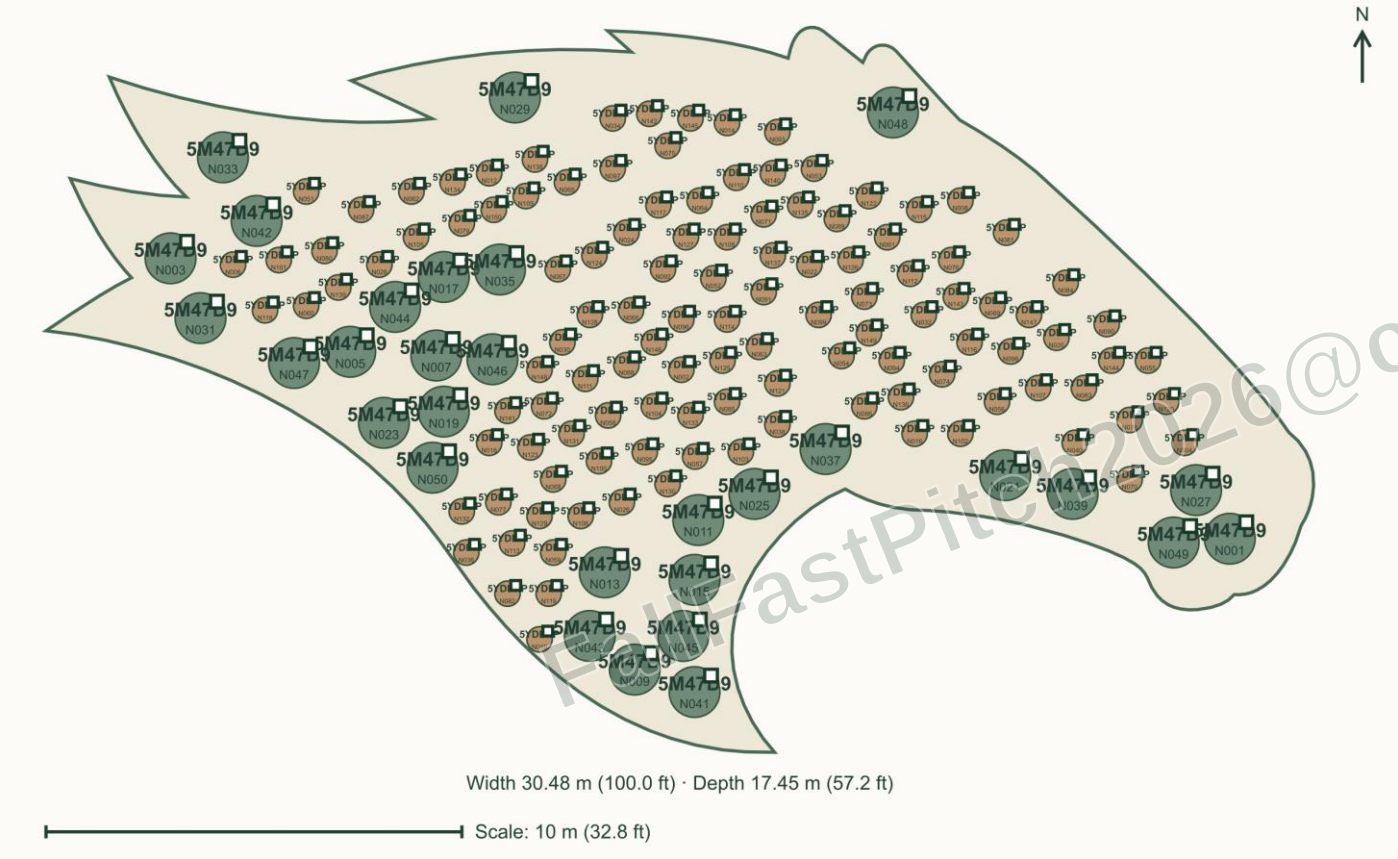



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150 plants across 2 types, with all 150 positions saved and locked.


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# The saved planting plan




| Plant / key | Role | Count |
|---|---|---|
| Deerweed 5M47D9 | Green foliage | 30 |
| Yellow yarrow 5YDBXP | Gold flowers | 120 |

150 saved and locked positions.

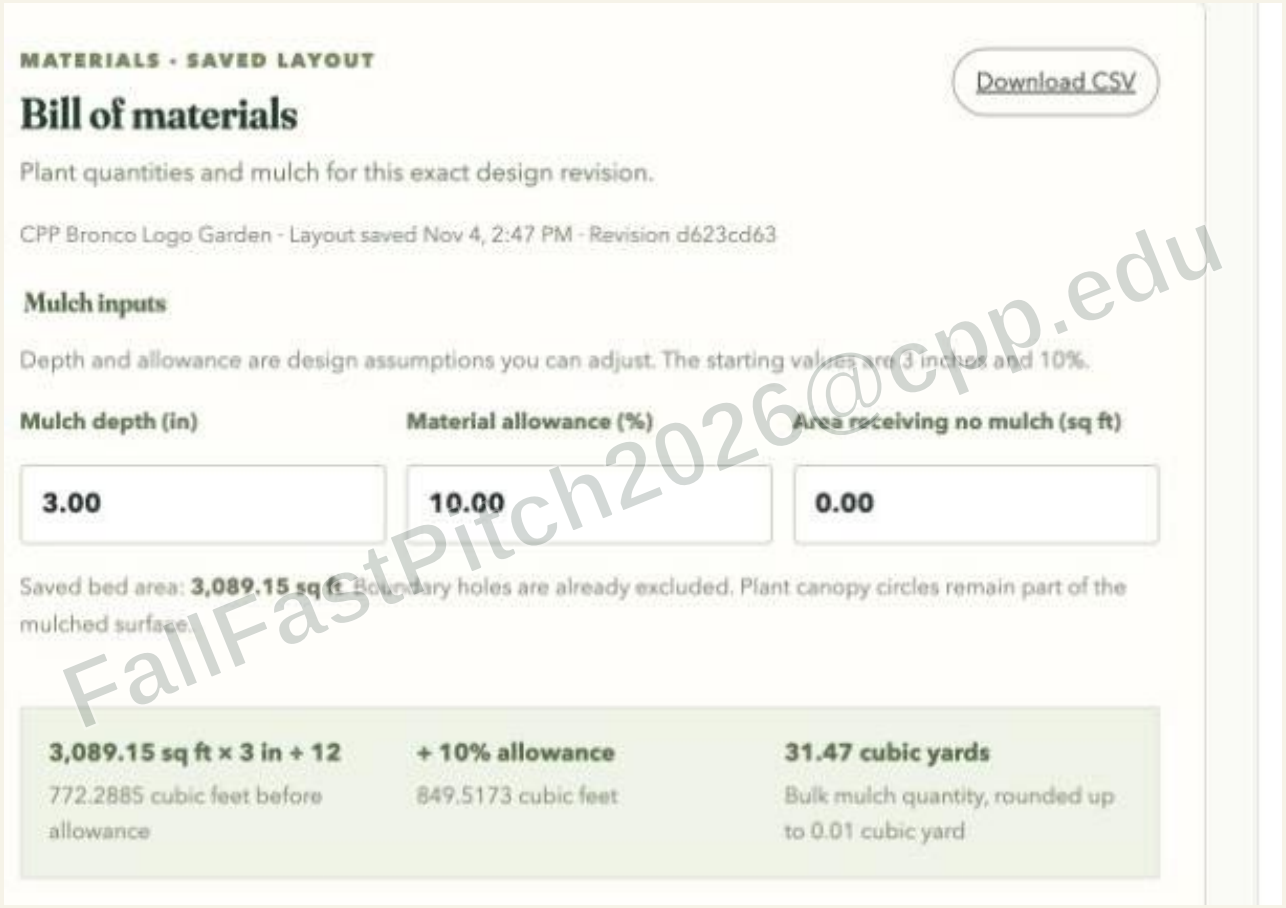
Reviewed canopies cover about 24.4% of the footprint.

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# Mulch assumptions



MATERIALS · SAVED LAYOUT

Download CSV

## Bill of materials

Plant quantities and mulch for this exact design revision.

CPP Bronco Logo Garden · Layout saved Nov 4, 2:47 PM · Revision d623cd63

### Mulch inputs

Depth and allowance are design assumptions you can adjust. The starting values are 3 inches and 10%.

| Mulch depth (in) | Material allowance (%) | Area receiving no mulch (sq ft) |
|---|---|---|
| 3.00 | 10.00 | 0.00 |

Saved bed area: **3,089.15 sq ft**. Boundary holes are already excluded. Plant canopy circles remain part of the mulched surface.

| 3,089.15 sq ft × 3 in ÷ 12 | + 10% allowance | 31.47 cubic yards |
|---|---|---|
| 772.2885 cubic feet before allowance | 849.5173 cubic feet | Bulk mulch quantity, rounded up to 0.01 cubic yard |

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3 in depth over 3,089 sq ft, with 10% allowance and no excluded area. People have very strong opinions on mulch, and have set preferences, so let's use them for calculations.



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# Bill of materials

| Item | Quantity | Unit | Unit price |
|---|---|---|---|
| Deerweed<br>Acmispon glaber | 30 | each | Not priced |
| Yellow yarrow<br>Eriophyllum confertiflorum var. confertiflorum | 120 | each | Not priced |
| Bulk mulch | 31.47 | cubic yards | Not priced |

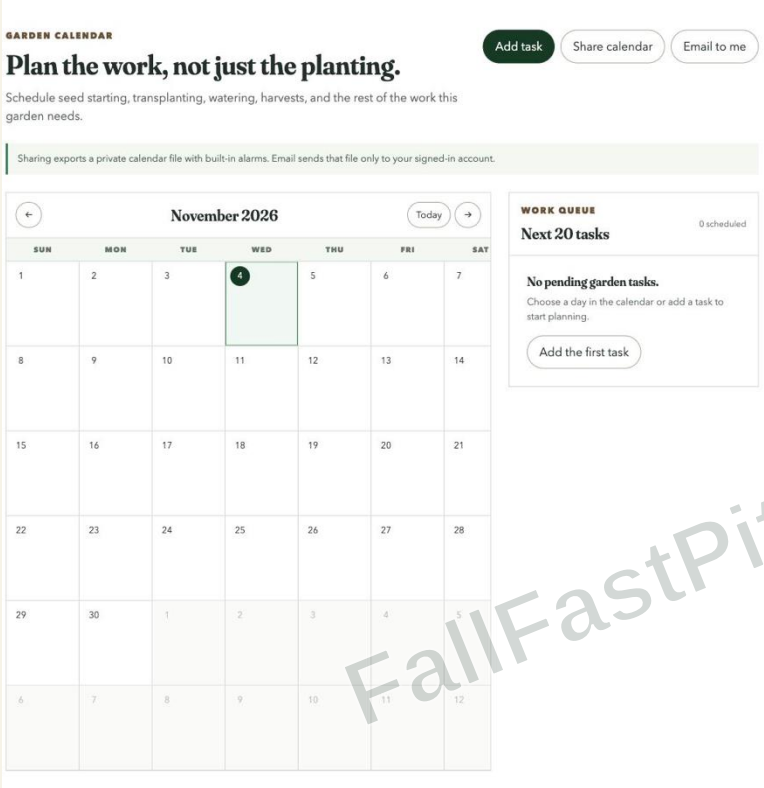
150 plants and 31.47 yd³ of mulch. Prices are blank, so the total cost is unknown. At this much mulch, you'd be asking for a custom quote anyway.

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# Calendar and tasks




**0 scheduled tasks**

No planting date
has been assumed.

No tasks scheduled yet. The calendar is ready for planting and care tasks. Each plant has structured data which can tie in to an AI RAG system (Retrieval-Augmented Generator). This enables a user to ask questions: “what’s the frequency and duration of irrigation” for example

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# Concept image options




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Ok, so let's use AI to generate an image of our garden. Watercolor and Naturalistic styles are available in Auxo. The next illustration was generated separately.


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# Naturalistic garden concept




Generated in Auxo from the saved planting layout.

Plant appearance and placement are approximate.

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# Water-wise gardens, ready to plant

Help residents turn conservation goals into a native garden plan.

Match plants to sun, site conditions, and planned watering.

Leave with a planting layout and bill of materials.

**Plan for lower water use and native habitat.**

Establishment watering still matters.
Savings vary by site and plant selection.



illustrative landscape

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# Auxo for water conservation programs

## Proposed offer: agency-sponsored resident access.

An agency license could fund garden planning for residents converting irrigated landscapes.

Start with a small cohort and expand if outcomes justify it.

| Measure | Evidence |
| --- | --- |
| Plans completed | Saved Auxo plans |
| Landscape converted | Verified square feet |
| Water use | Baseline and follow-up use |
| Native planting | Species and planted area |

Use agency data to verify installation and water outcomes. Adjust comparisons for weather.

Pilot structure and pricing to be agreed.

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